List of Math Apps, Nov 2013, from Tom Seidenberg, Phillips Exeter

Isosceles:geometry sketchpad (free*) – Drawing tool. Interactive geometry tutorials and practice questions.

MathGraph (free) – Interactive app for graphing circles, ellipses, parabolas, and hypberbolas in addition to lines. Includes sliders.

Statistics Visualizer (free) – Comprehensive statistical data analysis tool. Also called StatViz.

Slope Slider (free) – Builds understanding of linear relationships.

MathBrush (free) – recognizes mathematical expressions as you draw them. Supports variables and functions. Exports to LaTeX.

Sketch2Graph (free) – Draw a graph and get back mathematics it represents as opposed to providing a mathematical expression and getting a graph.

Educreations Interactive Whiteboard (free) – turns your iPad into a recordable whiteboard.

Fast Random Number Generator (free) – creates a random number or batch of random numbers within the range you specify.

Free Graphing Calculator (GraCalc) – Powerful, flexible graphing calculator.

WolframAlpha ($2.99) – Rapidly becoming the world's definitive source for instant expert knowledge and computation.

AlgebraTouch ($2.99) – Will refresh your algebra skills using touch-based techniques.

StatsMate for iPad ($1.99) – Easy-to-use powerful statistical calculator.

iCrosss (free*) – Allows you to build a cross-section of each available polyhedral by your defined plane.

Algebra Tiles (free*) – Just like the real ones except you can't throw them around.

Geometry Pad (free*) – Create fundamental geometric shapes and change their properties and calculate metrics.

Graphing Calculator HD (GraphCalc HD) ($1.99) – Supposedly the most downloaded graphing calculator for iPhone/iPod now available for iPad.

FluidMath 2014 ($15.00 yearly subscription) – Handwriting-based mathematics app for pre-algebra through calculus.

Desmos (free) – Graph functions, create function tables, explore transformations, plot points, animate graphs, and more.

GeoGebra (free) – Dynamic software that combines geometry, algebra, spreadsheets, graphing, statistics, and calculus.

TI-Nspire CAS or non CAS ($29.95) – All-in-one app for graphing, data entry and analysis, statistical modeling, and calculating functionality.

Notability (free*) – Note-taker to annotate documents, sketch illustrations, and more.

NotesPlus ($9.99) – Note-taker. Like Notability with some differences.

Vernier Video Physics ($4.99) – Take a video of an object in motion, mark its position frame-by-frame, and set up the scale using a known distance.

Math Ref ($1.99) – Browse over 1400 formulas, figures, and examples.

Matrices Calculator ($1.99) – Add, subtract, multiply matrices or find transpose of a matrix.

Minds of Modern Mathematics (free) – Takes you on a journey that spans nearly 1000 years.

GeoBoard (free) – Yup, just like the real thing but without rubber bands flying around.

Explain Everything (free*) – Interactive whiteboard tool that lets you annotate, narrate, import, and export.

*These apps also have paid versions…either more features or to eliminate ads or both.